|   | Index of Claims |          |           |          |             |          |              |          |              |              |           |            |          | Application No. |            |                 |          |          |                                        |              |         |           |             | Applicant(s) |                 |             |        |           |         |                                                  |              |                 |   |
|---|-----------------|----------|-----------|----------|-------------|----------|--------------|----------|--------------|--------------|-----------|------------|----------|-----------------|------------|-----------------|----------|----------|----------------------------------------|--------------|---------|-----------|-------------|--------------|-----------------|-------------|--------|-----------|---------|--------------------------------------------------|--------------|-----------------|---|
|   | ı               |          |           |          |             |          |              |          |              |              |           |            |          | 1               | 10/765,533 |                 |          |          |                                        |              |         |           |             |              |                 | FINK ET AL. |        |           |         |                                                  |              |                 |   |
|   |                 |          |           |          |             |          |              |          |              |              |           |            |          |                 | Examiner   |                 |          |          |                                        |              |         |           |             |              | Art Unit        |             |        |           |         |                                                  |              |                 |   |
|   |                 |          |           |          |             |          |              |          |              |              |           |            |          |                 |            |                 |          |          |                                        |              |         |           |             |              |                 |             |        |           |         |                                                  |              |                 |   |
|   |                 | 11888    | HUU       | I O E    | 111 13      | 116 1    | JEBI (       |          |              |              | I UUS ELA | II<br>     |          |                 |            | James P. Hughes |          |          |                                        |              |         |           |             |              | 2883            |             |        |           |         |                                                  |              |                 |   |
|   |                 |          |           |          |             |          |              |          |              |              |           |            |          |                 |            | , ,             |          |          |                                        |              |         | ,         | <del></del> |              |                 |             |        | ~         |         |                                                  |              |                 |   |
|   |                 |          | V         | R        | eie         | cti      | ed           |          |              |              | (         | Throi      | ugh r    | านก             | ner        | al)             |          |          |                                        | Non-Elect    |         |           | ctad        | .            |                 |             | ۸.     | \ne       | al      |                                                  | ļ            |                 |   |
|   |                 |          | Ľ         | Rejected |             |          |              |          | L            |              | Cancelled |            |          |                 |            |                 |          | Ν        | 1 146                                  | Voir-Liected |         |           |             | A            | Appeal          |             |        |           |         |                                                  |              |                 |   |
|   |                 |          | =         | Γ,       |             | llowed   |              |          |              | Г.           |           | Restricted |          |                 |            |                 |          |          | 1-46                                   |              |         | 1         |             | Objected     |                 |             |        |           | 1       |                                                  |              |                 |   |
|   |                 |          | -         | ~        | AHC         | WE       | <b>:</b> 0   |          |              | +            |           | K          | estri    | cte             | 0          |                 |          |          | 1                                      | Interferen   |         |           | ence        |              | 0               |             | Obj    | ec        | tea     |                                                  |              |                 |   |
|   |                 |          |           |          | <del></del> |          |              |          |              |              |           |            |          |                 |            |                 |          |          | ······································ |              |         |           |             |              |                 |             |        |           |         |                                                  |              |                 |   |
|   | CI              | aim      | -         | Date     |             |          |              |          | T            | 1            | -         | CI         | Claim    |                 |            |                 | ]        | Date     | •                                      |              |         |           | C!          | aim          | <u> </u>        | Date        |        |           |         |                                                  | 1            |                 |   |
|   | <del>-</del>    | Tag.     | 44        | 3        |             |          |              |          |              |              |           | -a         | Original |                 |            |                 |          |          |                                        |              | 1       |           |             | nat          |                 |             |        |           |         |                                                  |              |                 |   |
|   | Final           | Original | 1.        |          | 1           |          |              |          |              |              |           | Final      | ĝ        | ļ               |            |                 |          |          |                                        | -            |         | 1         | Final       | Originat     |                 |             |        | 1         |         |                                                  |              |                 |   |
|   |                 |          | Q.        | 1        | _           |          |              | L        | L            | L            | Ш         |            |          | L               |            |                 |          |          |                                        | $\perp$      |         |           |             | 1            |                 |             |        |           |         |                                                  |              |                 |   |
|   |                 | 1-       | -         | _        | $\vdash$    |          | <u> </u>     | ┺        | _            | _            | Н         | <u> </u>   | 51       | <u> </u>        |            |                 |          | $\dashv$ | $\exists$                              | 4            | 4       | 4         | <u> </u>    | 101          |                 | $\bot$      |        | T         |         | L                                                |              |                 |   |
|   | -               | 2        | -         | ┝        | -           | ├        | -            | ├-       | ├-           | ├            | -         |            | 52<br>53 | -               | Н          | Н               |          |          |                                        | -+           | -       | -         | -           | 102<br>103   | ┥               | +           |        | +         | +-      | ┼                                                | -            | ├               |   |
|   |                 | 4        | 1         | H        | $\vdash$    | $\vdash$ | _            | $\vdash$ | <del> </del> | 十            | H         |            | 54       | $\vdash$        | Н          | Н               |          | 1        | -                                      | -            | ╅       | ┨         |             | 103          | $\vdash$        | +           | -      | +         | ╁       | ╁                                                | ┢            | H               |   |
|   |                 | -5-      |           |          |             |          |              |          |              |              |           |            | 55       |                 |            |                 |          |          |                                        |              | $\perp$ |           |             | 105          |                 |             |        |           |         |                                                  | Ŀ            |                 |   |
|   | ļ               | 态        | V         | ,,       | _           | L        | ┡            | _        | <u> </u>     |              | Ш         |            | 56       |                 |            |                 |          |          | $\Box$                                 | $\perp$      | 1       | _         |             | 106          |                 | 4           |        | I         | $\perp$ |                                                  |              |                 |   |
|   |                 | (8)      | 1         |          | -           | ┞        | -            | ├        | -            | ⊢            | H         | $\vdash$   | 57<br>58 | $\vdash$        | _          | -               |          | $\dashv$ | -                                      | $\dashv$     | +       | 4         | <u> </u>    | 107          | Н               | +           | +      | +-        | +-      | ┼-                                               | ┞            |                 |   |
|   | <b></b>         | 9        | U         | H        | -           | -        | -            | ┢        | <del> </del> | -            | H         | -          | 59       | ┢               |            | $\dashv$        |          | $\dashv$ | -                                      | $\dashv$     | +       | ┥         | ļ           | 109          | -               | +           |        | +         | ╁╌      | +-                                               | -            |                 |   |
|   |                 | 10       |           |          |             |          |              |          |              |              |           |            | 60       |                 |            |                 |          |          |                                        | $\exists$    | 十       |           |             | 110          |                 | 1           | $\top$ | $\dagger$ | 1       | 1                                                |              |                 |   |
|   |                 | 11       |           | L        | _           |          |              | L        | L            |              |           |            | 61       |                 |            |                 |          | $\Box$   |                                        | $\Box$       | $\perp$ |           |             | 111          |                 | $\Box$      | $\bot$ | I         |         |                                                  |              |                 |   |
|   | <u> </u>        | 12<br>13 | -         | #-       | -           | _        | -            | ├-       | ├            | -            | $\vdash$  |            | 62<br>63 | -               | -          |                 |          |          | -                                      |              | -       | -         |             | 112<br>113   | ╌┼              | +           |        | +         | +       | -                                                | -            | -               |   |
|   | _               | 14       | $\vdash$  |          | $\vdash$    | -        | -            | $\vdash$ | ╁            | $\vdash$     | Н         | $\vdash$   | 64       | Н               | $\dashv$   |                 |          | -        | $\dashv$                               | $\dashv$     | +       | ┨         | -           | 114          | Н               | +           | +      | ┿         | +       | ╆                                                | ┢            | H               |   |
|   |                 | 15       |           |          |             |          |              |          |              |              |           |            | 65       |                 |            |                 |          | 一        |                                        | 1            | $\top$  | 7         |             | 115          |                 | 1           | 十      | T         | +       | 1                                                | $\vdash$     |                 |   |
|   |                 | 16       |           |          |             |          |              |          |              |              |           |            | 66       |                 |            |                 |          |          |                                        | $\Box$       | $\perp$ |           |             | 116          |                 | 1           |        | I         |         |                                                  | Ŀ            |                 |   |
|   | <u> </u>        | 17<br>18 | -         |          | L           | L        | -            | -        | -            | -            | $\vdash$  | -          | 67<br>68 | _               |            | -               |          | 4        | -                                      | +            | +       | 4         |             | 117<br>118   | $\vdash \vdash$ | +           | +      | ╀         | +-      | ┼                                                | <del> </del> |                 |   |
|   |                 | 19       | $\vdash$  | +        | -           | -        | <del> </del> | ╫        | -            | -            | H         | -          | 69       | -               | -          |                 |          | -        | -                                      | $\dashv$     | +       | $\dashv$  | -           | 119          | $\vdash$        | +           | ┰      | 十         | +-      | ╁╌                                               | -            | <del> </del>    |   |
|   |                 | 20       |           |          |             |          |              |          |              |              |           |            | 70       |                 |            |                 |          |          |                                        |              | 土       | 1         |             | 120          |                 |             | İ      | T         | 仜       |                                                  |              |                 |   |
|   |                 | 21       | Ш         |          | _           |          | _            | _        | <u> </u>     | _            | L         |            | 71       |                 |            | $\dashv$        |          | _        | _                                      | _            | _       | _         | ļ           | 121          |                 | _           |        | 4         | _       | _                                                | ot           |                 |   |
|   |                 | 22       |           | -        | -           | -        | -            | ┝        | -            | <del> </del> | $\vdash$  | -          | 72<br>73 | -               | $\dashv$   |                 |          |          | -                                      |              | +       | 4         | -           | 122<br>123   | ┝╌┼             | +           |        | ┿         | ╁╾      | ╫                                                | -            | Н               |   |
|   |                 | 24       | Н         |          |             | -        | -            | $\vdash$ |              | ┢            | Н         | -          | 74       | Н               | $\dashv$   |                 |          | -        | $\dashv$                               | 十            | +       | ┥         | $\vdash$    | 124          | H               | +           | +      | $\dagger$ | ╁       | 1                                                | -            | Н               |   |
|   |                 | 25       |           |          |             |          |              |          |              |              |           |            | 75       |                 |            |                 |          | $\Box$   |                                        |              |         |           |             | 125          |                 | 1           |        | 1         |         |                                                  |              |                 | : |
|   | _               | 26       | Н         |          | <u> </u>    | L        |              | -        | L            | Ļ.           | $\sqcup$  | <u> </u>   | 76       | Н               |            | $\dashv$        | _        | 4        | 4                                      |              | -       | 4         |             | 126          |                 | 4           | - -    | ╀-        | ╁       | -                                                | _            | Ш               | ı |
|   |                 | 27<br>28 | -         |          | -           |          |              | -        | -            | $\vdash$     | $\dashv$  |            | 77<br>78 | Н               | $\dashv$   | $\dashv$        |          | +        | +                                      | +            | +       | -         |             | 127<br>128   | $\vdash$        | +           |        | ╀         | +-      | -                                                | ·            | Н               | ı |
|   |                 | 29       |           |          |             | -        |              |          |              |              | $\neg$    |            | 79       |                 | -          | _               | _        | 十        | 7                                      | $\dashv$     | +       | ┪         |             | 129          |                 | +           | +      | +         | +-      | ┼                                                |              |                 | ı |
|   |                 | 30       |           |          |             | Ш        |              |          |              |              |           |            | 80       |                 |            | $\Box$          | $\Box$   |          |                                        |              |         |           |             | 130          |                 | I           |        | I         | I       |                                                  |              |                 | ı |
|   |                 | 31<br>32 |           | _        |             |          |              | _        | _            | -            |           | -          | 81<br>82 | -               |            |                 |          | 4        | 4                                      | 4            | +       | 4         |             | 131          | -               | 4           | -      | $\perp$   | ╄       | ├-                                               |              | $\sqcup$        | ı |
|   |                 | 33       |           |          |             |          |              | -        | -            | -            | $\vdash$  | -          | 83       | $\vdash$        | $\dashv$   | -               | ┥        | $\dashv$ | $\dashv$                               | +            | ╬       | -{        | -           | 132<br>133   | $\vdash$        | ╁           | -      | ╀         |         | ┼                                                | -            | -               | ı |
|   |                 | 34       |           |          |             |          |              |          |              |              | $\dashv$  |            | 84       |                 | $\dashv$   | 7               | T        | 1        | +                                      | $\dashv$     | 十       | ┪         |             | 134          |                 | $\dagger$   | +      | +         | +       | +-                                               |              | Н               | ı |
|   |                 | 35       |           |          |             |          |              |          |              |              |           |            | 85       |                 |            |                 |          |          | $\Box$                                 |              | I       | ]         |             | 135          |                 | I           |        | I         |         |                                                  |              |                 | 1 |
|   | _               | 36       | $\square$ |          |             |          |              | L        | $\vdash$     | Щ            |           | -          | 86       |                 |            | _               | 4        | -        | 4                                      | -            | ┵       | 4         | <u> </u>    | 136          | $\vdash$        | 4           | 4      | +         | ╀-      | ऻ                                                |              | Щ               |   |
|   |                 | 37<br>38 | $\dashv$  |          | -           |          | -            | -        | _            | Н            | -         | -          | 87<br>88 | $\vdash$        | -          | $\dashv$        | -        | -+       | +                                      | +            | ╬       | 4         |             | 137<br>138   | $\vdash$        | ┿           | ╬      | ╀         | +       | ╀                                                | H            | Н               |   |
|   |                 | 39       | _         | -        | $\neg$      | _        |              |          |              |              | -         |            | 89       |                 | 7          | $\dashv$        |          | -+       | 7                                      | _            | +       | 1         | -           | 139          | 1               | +           | +      | +         | +-      | <del>                                     </del> | ·            | H               |   |
|   |                 | 40       | $\Box$    |          |             |          |              |          |              | П            | $\Box$    |            | 90       |                 | $\Box$     | $\Box$          | $\Box$   | $\Box$   | $\Box$                                 | I            | $\top$  | ]         |             | 140          |                 | $\top$      | 工      | I         | L       |                                                  |              | 口               |   |
|   |                 | 41<br>42 | $\square$ |          |             | $\sqcup$ | Н            | <u> </u> | Щ            | <u> </u>     | _         | -          | 91       |                 | -          | 4               | 4        | +        | 4                                      | 4            | +       | 4         | <u></u>     | 141          |                 | +           |        | +         | 4-      | ↓_                                               | _            | dash            |   |
|   |                 | 43       | $\dashv$  | -        |             | $\vdash$ | Н            |          | Н            | Н            | $\dashv$  | -          | 92<br>93 | ┝╌┤             | -          | -               | -+       | +        | $\dashv$                               | +            | +       | $\dashv$  | -           | 142<br>143   | +               | +           | +      | +         | ╁╌      | $\vdash$                                         | -            | ${\mathbb H}$   |   |
|   |                 | 44       |           |          |             |          |              |          |              |              |           |            | 94       |                 | ╛          | ╛               |          |          |                                        | $\perp$      | 士       | 1         |             | 144          |                 | 1           |        | İ         | İ       |                                                  |              |                 |   |
|   |                 | 45       |           |          |             |          |              |          | Щ            |              | _         |            | 95       |                 | $\Box$     | $\exists$       | [        | $\Box$   | $\bot$                                 | $\bot$       | I       |           |             | 145          |                 | T           |        | I         | L       |                                                  |              |                 |   |
|   |                 | 46<br>47 | $\dashv$  |          | Н           | $\dashv$ | $\vdash$     | _        | Н            | Н            |           | -          | 96<br>97 | $\vdash$        | -          | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$                               | +            | +       | -         | -           | 146<br>147   | -               | +           | - -    | +         | +       | ┡                                                | $\vdash$     | Н               |   |
|   |                 | 48       | $\dashv$  | $\dashv$ | Н           | -        | Н            | -        | Н            | $\vdash$     | -         |            | 98       | $\vdash$        | +          | -               | ┪        | $\dashv$ | $\dashv$                               | +            | +       | $\forall$ | <b> </b>    | 148          | $\vdash$        | 十           | +      | +         | +       | $\vdash$                                         | -            | $\vdash \vdash$ |   |
| Ì |                 | 49       |           |          |             |          |              |          |              |              |           |            | 99       |                 |            |                 |          |          |                                        |              | 工       | 1         |             | 149          |                 | 土           | 工      | I         |         |                                                  |              |                 |   |
|   | - 1             | 50       |           | ı        |             |          | 1            |          |              |              | į.        | 1          | 100      |                 |            | - 1             | - [      | - 1      | - 1                                    | - [          | - 1     | 1         | 1           | 150          | 1 1             |             | 1      | 1         | 1-      | 1 _                                              | 1 7          | 1 7             |   |